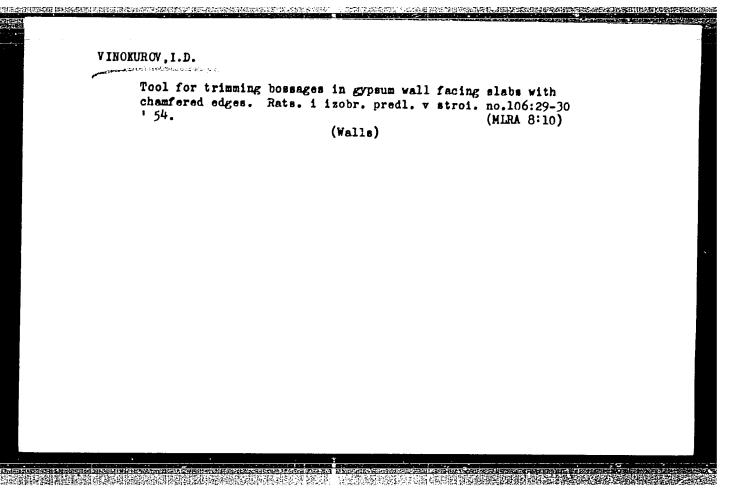


VINCKULLY, L. H.

28529

Matyerialy Po Izuchyeniyu Yablonnoy Plodozhorki Na Altaye Po Otchyetam D. G. Bassyelb Trudy Alt. Krayev Stantsii Zashchity Rastyeniy, No. 1, 1949, S. 173-84 Urozhay, Nakoplyeniye I Vykhod Kauchuka V Kok- Sagyzye Dok Ledy Adad Nauk Ukr.SSR, 1949, No. 3, S.51-58- Na UKR Yaz- Ryezyumye Na hus. Yaz Bibliogr: 8 Nazv

SO: LETOPIS NO. 38



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VINCKUROV, 1.	
Peshkom na polius To the North Pole by foot7. Moskva, Detgiz, 1952. 96 p	
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*******	[To the Pole on foot] Pes	hkom na polins.	Moskva [etc.] Detgiz,	1952. 94 p
	(Sedov, Georgii Yakovlev	ich, 1877-1914)	(Arctic regions)	LRA 6:9)

VINORUMOV, logif abovich; GORYUNOV, Bikolay Bikolayevich, kami.
fiz.-mat. nauk; KLYMAK, Arkadiy Yuriyavich; Colovov,
aleksandr Mekseyevich; Y.NYUTE, V.V., red.

[Pandbook nemiconductor dioden and trand toro] Spravochnik po poluprovodnikovym diodam i tranzistoram. Nockva, Energiia, 1964. 526 p. (NIRA 18:1)

\*\*HEKURGY, G. H.

28482

Obyesplozhiveniye saranchyevykh pri pomoshchi mikrobov. Trudy alt. Zrayev. Stantsii zashchity rastyeniy, No. 1, 1949, S. 35-51

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# VINOKUROV, I.N.

Compatibility of penicillin with other specific media in the treatment of syphilis. Vest.vener. No.1:21-22 Jan-Feb 51. (CLAL 20:6)

1. Of the Department of Syphilology(Head--Prof. I.D.Perkel') and of the Microbiological Laboratory (Head--Docent M.M. Izrael'son), Odessa Dermato-Venereological Institute imeni Ye.S.Glavche (Director B.I.Shpolyanskiy).

YAKUNER, S. A.; VINOKUROV, I, N.

Lanolin-oil penicillin suspension. Vest. vener., Moskva no.4;

44 July-Aug 51. (CIML 21:1)

1. Senior Scientific Associate; Yakuner; Departmental Physician Vinokurov. 2. Of the Syphilological Department (Head — Prof. I. D. Perkel'), Odessa Skin-Venereological Institute imeni Ye. S. Glavche (Director — B. I. Shpolyanskiy).

VINOKUROV, I. N.

Penicillin concentration in the blood following administration with autohemotherapy in syphilis. Vest. vener., Moskva no.2:55 Mar-Apr 1952. (CLML 22:2)

. 1. Of Odessa Skin-Venereological Institute imeni Ye. S. Glavche.

# KHARCHENKO, A. M.; VINOKUROV, I. N. Functional and histomorphological changes in the skin of rabbits following applications of radioactive phosphorus. Vest. ven. i derm. no.5:14-18 S-0 '55 (MIRA 9:1) 1. Iz kozhnogo otdela (zav. G. I. Landa) Odesskogo nauchno-issledovatel'skogo kozhno-venerologicheskogo instituta imeni Ye. S. Glavche (dir.-dotsent S. I. Matuskov). (PHOSPHORU, radioactive eff. on physiol. & histomorphol. of skin in rabbits) (SKIN, physiol. & histomorphol., eff. of radioactive phosphorus in rabbits)

VINOKUROV, I.N., starshiy nauchnyy sotrudnik; KUKSENKO, O.I., nauchnyy sotrudnik

Pathomorphological changes in the internal organs of rabbits infected by syphilis and treated by penicillin and tissue extracts. Vest.ven. 1 derm. 30 no.2:49 Mr-Ap '56. (MIRA 9:7)

1. Iz Odesskogo kozhno-venerologicheskogo instituta. (SYPHILIS IN ANIMAIS)

VINOKUROV. I.N., starshiy nauchnyy sotrudnik

Functional and histomorphological changes in the skin of rabbits with experimental dermatitis after influencing the central nervous system in several ways. Vest.ven. i derm. 30 no.5:16-18 S-0 '56.

(MLRA 9:12)

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1. Iz kozhnogo otdela (zav. G.I.Landa) Odesskogo nauchno-issledovatel skogo kozhnovenerologicheskogo instituta imeni Ye.S.Glavche (dir. - dotsent S.I.Matusov)

(DERMATITIS, exper.

eff. of funct. changes in cerebral cortex on skin in rabbits)

(CEREBRAL CORTEX, physiol.

eff. of funct. changes on skin in exper. dermatitis in rabbits)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001860010018-6"

VINOKUROV, I.N., kand. med. nauk; LIRERMAN, M.I.

Group incidence of alopecia areata. Vest. derm. 1 ven. no.1: 82-83 '65. (MIRA 18:10)

1. Klinika kozhno-venericheskikh bolezney (zav. kafedroy - prof. M.M. Zheltakov) II Moskovskogo meditsinskogo instituta imeni Pirogova i Moskovskiy gorodskoy kozhno-venerologicheskiy dispanser (glavnyy vrach A.S. Obukhova).

VINOKUROV, I.N., kand. med. nauk (Moskva)

Effect of the general action of chloral hydrate and caffeine on the functional state and histomorphology of the skin.

Vest. derm. i ven. no.3:9-13 '65. (MIRA 18:11)

WEStriary, E. L., prof.; V. Challey, i.e., kand. mad. madk

Force isn'n fronteent of patients with alopecia areat. act a.
totalis. Sov. med. 26 no. 3:126-129 Ag 165. (HEA 12:9)

1. Kafedra korhnykh belezney (zav. - prof. M.M.Zheltskov) ::
Mozkovskogo as iltsickago instituta iseni Pirogova.

Providence with external use of sinestrol in the treatment of sinescia areata in women. Vest. derm. 1 ven. 38 no.8:26-50 kg '64.

1. Kafedra kozhnykh i venericheskikh bolezney (zav.- prof. M.M. Zheltakov) il Moskovskogo meditsinakogo instituta imeni Pirogova.

ZHELTAKOV, M.M., prof.; VINOKUROV, I.N., kand.med.nauk; GUSAROVA, A.S.

Experience with the treatment of seborrhoic alopecia with epilin plaster. Vest. derm. i ven. 38 no.4:40-43 Ap \*64.

(MIRA 18:4)

1. Klinika kozhno-venericheskikh bolezney (zav. - prof. M.M. Zheltakov) II Moskovskogo meditsinskogo instituta imeni Pirogova i Instituta vrachebnoy kosmetiki (dir. A.F.Akhabadze) Ministerstva zdravockhraneniya RSFSR.

VINOKUROV, I.N., kand.med.nauk

New Soviet drugs, ammifurin and beroxan, for the treatment of alopecia areata and vitiligo. Vest. derm. i ven. 37 no. 10: 10-14 0 '63. (MIRA 17:9)

1. Klinika kozknykh bolezney (zav. - prof. M.M.Zheltakov)
II Moskovskogo gosudarstvennogo meditsinskego instituta imeni
Pirogova (dir. - dotsent M.G.Sirotkina).

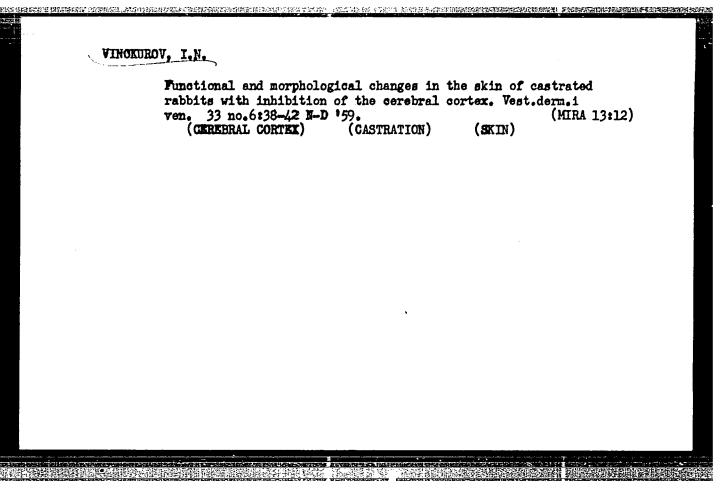
VINOKUROV, I.N.; REZNIKOV, Ye.K.; CHERNOVA, P.N.

Meladinine therapy of disseminated forms of vitiligo, and alopecia areata and universalis. Vest.derm. i ven. 37 no.1: 42-46 Ja\*63. (MIRA 16:10)

1. Iz kafedry kozhnykh i venericheskikh bolezney II Moskovskogo meditsinskogo instituta imeni N.I.Pirogova (zav. prof.
M.M.Zheltakov) i Moskovskogo gorodskogo kozhno-venerologicheskogo dispansera (glavnyy vrach A.S.Obukhova).

(VITILIGO) (BALDNESS) (XANTHOTOXIN)

(IMPERATORIN)



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ZHELTAKOV, M.M., prof.; VINOKUROV, I.M., assistent; SOMOV, B.A., assistent;

Hypnotic suggestion associated with electronarcosis in certain dermatoses. Vest. derm. i ver. 33 no.2:28-31 Mr-Ap '59. (MIRA 12:7)

1. Iz kafedry kozhnykh i venericheskikh bolezney (zav. - prof. M.M. Zheltakov) II Moskovskogo meditsinskogo instituta imeni N.I. Pirogova. (SUGUENTION, ther. use.

skin dis., hypnotic suggestion with electronarcosis (Rus))
(ZLECTROMARCOSIS, in var. dis.

skin dis., with hypnotic suggestion (Rus))
(SKIN DISEASES, ther.

hypnotic suggestion with electronarcosis (Rus))
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STUINITSIN, A.A., prof.; VINOKUROV, I.N., assistent

Vitamin Bl2 therapy in certain skin diseases. Vest. derm. i ven.
33 no.2:51-54 Mr-Ap '59. (MIRA 12:7)

1. Iz kafedry kozhnykh bolezney II Moskovskogo meditsinskogo instituta (zav. - prof. M.M. Zheltakov).

(VITAMIN Bl2, ther. use,
skin dis. (Rhs))

(SKIN DISEASES, ther.
vitamin Bl2 (Rhs))
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USSR/Human and Animal Thysiology (Normal and Pathological).

T-14

Abs Jour

: Ref Zhur - Diol., No 11, 1958, 51413

Author

: Vinokurov, I.N.

Inst Title

: Functional and Histomorphological Changes in the Skin of Rabbits with Experimental Dermatitis in Certain Forms of

an Affected Central Nervous System.

Orig Pub

Abstract

: Dermatitis was produced in rabbits by rubbing turpentine into a shaved portion of their skin for several days. Then, sleep was induced by hypodermic injection of chloral hydrate. On the side where dermatitis was present, skin temperature decreased by 0.4-1°C during sleep, and by 0.7-2.1° on the other side. When cold was applied (+0.4°), skin temperature decreased on the average by 5.7°, yet in the control animals it decreased by only 0.9°.

Card 1/2

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SCHOOL STATE OF THE STATE OF TH

USSR/Human and Animal Physiology (Normal and Pathological).
Skin.

T-14

Abs Jour

: Ref Zhur - Biol., No 11, 1958, 51413

When histomorphologic investigations were carried out, it was shown that inflammatory processes of the skin were less pronounced during sleep than when the animals were awake. Their skin nerves were thickened and twisted. Some changes were also discovered in symmetrical sections of the skin. When caffeine was hypodermically injected (0.1 gr/kg), chronaxy was shortened (to 0.028-0.034 %). Histological skin investigation demonstrated a marked intensification of inflammatory processes. -- F.I. Munladze.

Card 2/2

VINOKUROV, I.P.

Paste for covering defects in plyvood. Der. prom. 12 no.9:21 (MIRA 16:10)

VINOKUROV, I.P.

Using glues in the furniture industry. Der. prom. 12 no.12: 17-18 D '63. (MIRA 17:3)

1. Sarapul'skiy lesokombinat, Udmurtskaya ASSR.

HELOUS, M.Ye., inzh.; HER, Ya.I., inzh.; VINOKUROV, I.S., inzh.

Manufacture and installation of cerrugated bulkheads in whalers.
Sudestreenie 25 no.4:36-40 Ap '59. (MIRA 12:6)

(Whalers)

BYKOVA, T.T.; VINOKUROV, I.V.

REPORTED TO THE PROPERTY OF TH

ise of the electron paramagnetic resonance method in studying surfaces of silicon and lead sulfide. Fiz. tver. tela 7 no.9:2597-2602 S 165.

(MIRA 18:10)

TO THE NOTIFICAL PROPERTY OF THE RESIDENCE OF THE PROPERTY OF

1. Isningradskiy gosudarstvennyy universitet i Institut khimii silikatov imeni I.V. Grebenshchikova AN SSSR, Leningrad.

JD/\\ii\/GG L 8972-66 EWT(1)/EWT(m)/T/EWP(t)/EWP(b)  $_{\rm LJP(c)}$ SOURCE CODE: UR/0181/65/007/011/3392/3401 ACC NR: AP5027421 44,55 44,55 AUTHOR: Bir, G. L.; Vinokurov, I. 44,53 ORG: Institute of Semiconductors AN SSSR, Leningrad (Institut poluprovodnikov AN SSSR) TITLE: Forbidden transitions in the fine structure of a Gd3<sup>†</sup> ion in a CeO<sub>2</sub> crystal SOURCE: Fizika tverdogo tela, v. 7, no. 11, 1965, 3392-3401 TOPIC TAGS: gadolinium, cerium compound, oxide, forbidden transition, fine structure, EPR, crystal theory 21, 44,55 ABSTRACT: This paper gives data from an experimental and theoretical study of lines due to forbidden transitions with  $\Delta M \neq \pm 1$  in the fine structure of the electroc paramagnetic resonance spectrum for a  $Gd^{3T}$  ion in  $CeO_2$ . Expressions are found in the first approximation of perturbation theory with respect to  $a/g\beta H$  for the matrix element of the forbidden transition  $W_{M,N}(N \neq M \pm 1)$  for an ion located in a cubic crystal field. Here a is the constant of interaction with the crystal field. The authors study the angular relationship for intensity of various types of forbidden electron paramagnetic resonance lines of trivalent gadolinium in cerium dioxide. The experiments are done with orientations of the external magnetic field in planes {100} and Card 1/2

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ACC NR: AP5027421

(110). Theoretical considerations indicate an identical angular relationship for all forbidden lines corresponding to a single type of transition. However, a somewhat different angular relationship is observed experimentally for various lines belonging to a single type of forbidden transition. It is assumed that this is due to use of only the first approximation in the theoretical calculations, and that successive approximations would reveal differences in angular relationships for various lines. The formulas derived give a satisfactory description on the whole of the observed angular relationships. Orig. art. has: 3 figures, 1 table, 17 formulas.

SUB CODE: 07,20/ SUBM DATE: 03May65/ ORIG REF: 003/ OTH REF: 003

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Card 2/2

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001860010018-6"

BERLAGA, R.Ya.; VINOKUROV, I.V.; KONOROV, P.P.

Electric properties of single-crystal and polycrystalline lead sulfide layers. Fiz. tver. tela 5 no.12:3435-3438 D '63. (MIRA 17:2)

1. Leningradskiy gosudarstvennyy universitet.

ACCESSION NR: AP5022692  AUTHOR: Bykova, T. T.; Vinokurov, I. V. 14, 55  TITLE: Use of the electron paramagnetic resonance method for studying the surface of silicon and lead sulfide  SOURCE: Fizika tverdogo tela, v. 7, no. 9, 1965, 2597-2602  TOPIC TAGS: silicon, sulfide, lead compound, electron paramagnetic resonance, resonance line, surface property, crystal surface, single crystal  ABSTRACT: The authors studied the electron paramagnetic resonance spectra of Si and PbS powders at 293 and 77°K. The powders were produced by pulverizing single crystals in air and had a specific surface of (0.340.2) m²·g¹ for PbS and (1.39±20.03) m²·g¹ for Si. The measurements were made in a vacuum of 10 <sup>-7</sup> -10 <sup>-8</sup> mm Hg. The effect of hydrogen, oxygen, water vapor and air on the electron paramagnetic resonance spectra of these materials was also studied in the pressure range of 10 <sup>-4</sup> -10 <sup>-1</sup> mm Hg. The silicon used had n-type conductivity with a resistivity of 60 n°cm and a diffusion length of 0.4 mm. No resonance was observed in the silicon single crystal at either temperature. Untreated freshly pulverized silicon powder showed the intense symmetric line A (see fig. 1 of the Enclosure) of Lorentz shape	00100-00	F(c)/EMA(c)/EMF(l)/EMT(m)	The state of the s	2007 (000 (2507 (2602
TITLE: Use of the electron paramagnetic resonance method for studying the surface of silicon and lead sulfide  SOURCE: Fizika tverdogo tela, v. 7, no. 9, 1965, 2597-2602  TOPIC TAGS: silicon, sulfide, lead compound, electron paramagnetic resonance, resonance line, surface property, crystal surface, single crystal  ABSTRACT: The authors studied the electron paramagnetic resonance spectra of Si and PbS powders at 293 and 77°K. The powders were produced by pulverizing single crystals in air and had a specific surface of (0.3±0.2) m²·g⁻¹ for PbS and (1.39±0.03) m²·g⁻¹ for Si. The measurements were made in a vacuum of 10⁻²-10⁻8 mm Hg.  The effect of hydrogen, oxygen, water vapor and air on the electron paramagnetic resonance spectra of these materials was also studied in the pressure range of 10⁻⁴-10⁻1 mm Hg. The silicon used had n-type conductivity with a resistivity of 60 n·cm and a diffusion length of 0.4 mm. No resonance was observed in the silicon powder	CCESSION NR:	AP5022692	UR/0181/65/	1007/009/2597/2502
SOURCE: Fizika tverdogo tela, v. 7, no. 9, 1965, 2597-2602  FOPIC TAGS: silicon, sulfide, lead compound, electron paramagnetic resonance, resonance line, surface property, crystal surface, single crystal  ABSTRACT: The authors studied the electron paramagnetic resonance spectra of Si and PbS powders at 293 and 77°K. The powders were produced by pulverizing single crystals in air and had a specific surface of (0.3¹0.2) m²·g¹ for PbS and (1.39² crystals in air and had a specific surface of (0.3¹0.2) m²·g¹ for PbS and (1.39² crystals in air and had a specific surface of (0.3¹0.2) m²·g¹ for PbS and (1.39² crystals in air and had a specific surface of (0.3¹0.2) m²·g¹ for pbS and (1.39² crystals in air and had a specific surface of (0.3¹0.2) m²·g¹ for pbS and (1.39² crystals in air and had a specific surface of (0.3¹0.2) m²·g¹ for pbS and (1.39² crystals in air and had a specific surface of (0.3¹0.2) m²·g¹ for pbS and (1.39² crystals in air and had a specific surface of (0.3¹0.2) m²·g¹ for pbS and (1.39² crystals in air and had a specific surface of (0.3¹0.2) m²·g¹ for pbS and (1.39² crystals in air and had a specific surface of (0.3¹0.2) m²·g¹ for pbS and (1.39² crystals in air and had a specific surface of (0.3¹0.2) m²·g¹ for pbS and (1.39² crystals in air and had a specific surface of (0.3¹0.2) m²·g¹ for pbS and (1.39² crystals in air and had a specific surface of (0.3¹0.2) m²·g¹ for pbS and (1.39² crystals in air and had a specific surface of (0.3¹0.2) m²·g¹ for pbS and (1.39² crystals in air and had a specific surface of (0.3¹0.2) m²·g¹ for pbS and (1.39² crystals in air and had a specific surface of (0.3¹0.2) m²·g¹ for pbS and (1.39² crystals in air and had a specific surface of (0.3¹0.2) m²·g¹ for pbS and (1.39² crystals in air and had a specific surface of (0.3¹0.2) m²·g¹ for pbS and (1.39² crystals in air and had a specific surface of (0.3¹0.2) m²·g¹ for pbS and (1.39² crystals in air and had a specific surface of (0.3¹0.2) m²·g¹ for pbS and (1.39² crystals in air and had a specific surface of (0.3¹0.2) m²·g	UTHOR: Bykov	a, T. T.; Vinokurov, I. V	21,44,55	- studying the surface
COURCE: Fizika tverdogo tela, v. 7, no. 9, 1965, 2597-2602  FOPIC TAGS: silicon, sulfide, lead compound, electron paramagnetic resonance, resonance line, surface property, crystal surface, single crystal  ABSTRACT: The authors studied the electron paramagnetic resonance spectra of Si and PbS powders at 293 and 77°K. The powders were produced by pulverizing single crystals in air and had a specific surface of (0.3¹0.2) m²·g¹ for PbS and (1.39² crystals in air and had a specific surface of (0.3¹0.2) m²·g¹ for PbS and (1.39² to 0.03) m²·g¹ for Si. The measurements were made in a vacuum of 10⁻7-10⁻8 mm Hg.  The effect of hydrogen, oxygen, water vapor and air on the electron paramagnetic resonance spectra of these materials was also studied in the pressure range of 10⁻4-10⁻1 mm Hg. The silicon used had n-type conductivity with a resistivity of 60 10⁻4-10⁻1 mm Hg. The silicon used had n-type conductivity pulverized silicon powder	ITLE: Use of silicon and	the electron paramagneti	c resonance method re	or studying the surrec
ABSTRACT: The authors studied the electron paramagnetic resonance spectra of Si and PbS powders at 293 and 77°K. The powders were produced by pulverizing single crystals in air and had a specific surface of (0.3±0.2) m²·g¹ for PbS and (1.39±crystals in air and had a specific surface of (0.3±0.2) m²·g¹ for PbS and (1.39±crystals in air and had a specific surface of (0.3±0.2) m²·g¹ for PbS and (1.39±crystals in air and had a specific surface of (0.3±0.2) m²·g¹ for PbS and (1.39±crystals in air and had a specific surface of (0.3±0.2) m²·g¹ for PbS and (1.39±crystals in air and had a specific surface of (0.3±0.2) m²·g¹ for PbS and (1.39±crystals in air and had a specific surface of (0.3±0.2) m²·g¹ for PbS and (1.39±crystals in air and had a specific surface of (0.3±0.2) m²·g¹ for PbS and (1.39±crystals in air and had a specific surface of (0.3±0.2) m²·g¹ for PbS and (1.39±crystals in air and had a specific surface of (0.3±0.2) m²·g¹ for PbS and (1.39±crystals in air and had a specific surface of (0.3±0.2) m²·g¹ for PbS and (1.39±crystals in air and had a specific surface of (0.3±0.2) m²·g¹ for PbS and (1.39±crystals in air and had a specific surface of (0.3±0.2) m²·g¹ for PbS and (1.39±crystals in air and had a specific surface of (0.3±0.2) m²·g¹ for PbS and (1.39±crystals in air and had a specific surface of (0.3±0.2) m²·g¹ for PbS and (1.39±crystals in air and had a specific surface of (0.3±0.2) m²·g¹ for PbS and (1.39±crystals in air and had a specific surface of (0.3±0.2) m²·g¹ for PbS and (1.39±crystals in air and had a specific surface of (0.3±0.2) m²·g¹ for PbS and (1.39±crystals in air and had a specific surface of (0.3±0.2) m²·g¹ for PbS and (1.39±crystals in air and had a specific surface of (0.3±0.2) m²·g¹ for PbS and (1.39±crystals in air and had a specific surface of (0.3±0.2) m²·g¹ for PbS and (1.39±crystals in air and had a specific surface of (0.3±0.2) m²·g¹ for PbS and (1.39±crystals in air and had a specific surface of (0.3±0.2) m²·g¹ for PbS and (1.39±crystals in air and had a specific surface of	SOURCE: Fizik	a tverdogo tela, v. 7, no	. 9, 1965, 2597-2602	
ABSTRACT: The authors studied the electron paramagnetic resonance spectra of Si and PbS powders at 293 and 77°K. The powders were produced by pulverizing single crystals in air and had a specific surface of (0.3±0.2) m²·g¹ for PbS and (1.39±0.03) m²·g¹ for Si. The measurements were made in a vacuum of 10⁻¹-10⁻8 mm Hg. ±0.03) m²·g¹ for Si. The measurements were made in a vacuum of 10⁻¹-10⁻8 mm Hg. The effect of hydrogen, oxygen, water vapor and air on the electron paramagnetic resonance spectra of these materials was also studied in the pressure range of 10⁻⁴-10⁻¹mm Hg. The silicon used had n-type conductivity with a resistivity of 60 10⁻⁴-10⁻¹mm Hg. The silicon used had n-type conductivity with a resistivity of 60 n-type and a diffusion length of 0.4 mm. No resonance was observed in the silicon powder	COPIC TAGS: 8	ilicon, sulfide, lead com, surface property, cryst	pound, electron para al surface, single c	nagnetic resonance,
	ABSTRACT: The and PbS powder crystals in air 40.03) m <sup>2</sup> ·g <sup>-1</sup> The effect of resonance spector 10 <sup>-4</sup> -10 <sup>-1</sup> mm Hg Ω·cm and a dis	authors studied the elects at 293 and 77°K. The part and had a specific surfor Si. The measurement hydrogen, oxygen, water etra of these materials was the silicon used had affusion length of 0.4 mm.	etron paramagnetic re powders were produced face of (0.3±0.2) m <sup>2</sup> . s were made in a vacu vapor and air on the as also studied in the n-type conductivity we No resonance was on	sonance spectra of Si by pulverizing single g <sup>-1</sup> for PbS and (1.39* um of 10 <sup>-7</sup> -10 <sup>-8</sup> mm Hg. electron paramagnetic e pressure range of the a resistivity of ( served in the silicon

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with  $g=2.005\pm0.001$  and width  $\Delta H=(8.4\pm0.5)$  gauss. The number of centers corresponding to this line was estimated at  $(7.2\pm2.7)\cdot10^{15}$  spin·cm<sup>2</sup>. Heating the powder for 1-2 hours at 773-873°K in a vacuum of 10<sup>-7</sup> mm Hg reduces the amplitude of line A by a factor of 10-30 and gives a narrow line B with  $q = 2.0022 \, 0.0009$  and  $\Delta H = (1.0 \pm 0.2)$  gauss superimposed on line A (see fig. 1b of the Enclosure). Additional heating of the powder in a vacuum of 10<sup>-6</sup> mm Hg for 1 hour reduces the amplitudes of lines A and B by a factor of approximately 4 without changing their width (see fig. 1c of the Enclosure). Cooling in liquid nitrogen reduces the amplitude of line A by a factor of 11, and line B by a factor of 8 with slightly an increase in the widths of both lines. Oxygen at room temperature reduces the amplitude of line B slightly and has no effect on line A. Line B disappears in air at room temperature and line A is increased by a factor of 1.3. These phenomena are reversible. At 77°K, line B disappears in oxygen and line A is slightly intensified. Re-evacuation of the oxygen at 77°K reduces the intensity of line A to the original signal strength, but line B does not reappear. Heating the powder to room temperature restores line B. When hydrogen is admitted at 77°K, the amplitude of line B first increases slowly (to twice the original amplitude) and then has a tendency to reduce. Line A behaves in a similar fashion. Water vapor was admitted at room temperature and the electron paramagnetic resonance signals were measured at 77°K. A new resonance line was observed with  $g = 1.995\pm0.0003$  and width

Card 2/8

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001860010018-6"

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ACCESSION NR: AP5022692

 $\Delta H = (1.0\pm0.2)$  gauss. It is assumed that line A is due to  $SiO_{x1}$  centers which are formed by the addition of oxygen to the silicon during pulverizing in air. Heating the powder in a vacuum apparently drives off some of the oxygen from the surface with the formation of  $SiO_{x^2}$  centers which give the line B. The line B must be due to centers which are localized on the very surface of the silicon since this line disappears when oxygen is admitted at 77°K. The effect which hydrogen has on this line is apparently due to the reducing action of hydrogen. The line associated with water vapor is not fully explained. The n-PbS single crystals with a carrier concentration of  $(3-5)\cdot 10^{18}$  cm $^{-3}$  showed no electron paramagnetic resonance signals when freshly pulverized and measured in air. In vacuum, an asymmetric signal appears with  $g_{\rm av}=2.002\pm0.001$  and width  $\Delta H=(13.4\pm0.9)$  gauss. This signal was considerably reduced by heating in a vacuum and in hydrogen. The original amplitude of the signal is restored by admitting oxygen at room temperature. It was found that the number of centers contributing to this signal is increased by a factor of 3.3 with the admission of oxygen and reaches a value of the order of  $(5\pm3)$ .  $\cdot 10^{14}$  spin·cm<sup>-2</sup>. Cooling the specimen to 77°K in a vacuum of  $10^{-5}$  mm Hg increases the amplitude of the electron paramagnetic resonance signal and changes its anisotropy. An additional narrow line appears at 77°K. Oxygen considerably reduces the signals at the low temperature. This phenomenon is reversible. The experimental

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L 00706-66

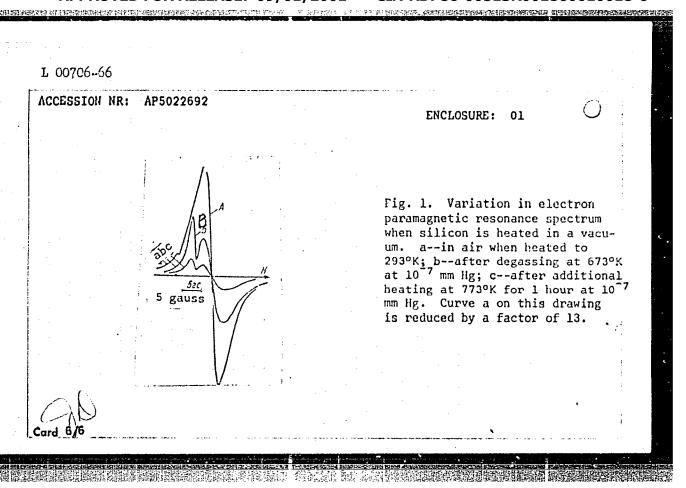
ACCESSION NR: AP5022692

121

data are explained by assuming that oxygen is adsorbed in two ways on the surface of lead sulfide. The signal with g = 2.002 is identified with the peroxide radical (02) which is formed by the action of oxygen at room temperature. The reduction in the electron paramagnetic resonance signal with the admission of oxygen at 77°K may be due to the considerably weaker bond between oxygen and the lead sulfide surface. The narrow line which appears only at 77°K is also apparently due to a surface radical since this phenomenon is reversible. The effect of water vapor and hydrogen on these signals was also studied. No change was observed in the spectrum at either temperature. Apparently neither water vapor nor hydrogen forms any additional surface radicals and the physical adsorption of non-paramagnetic rolecules does not have any noticeable effect on the electron paramagnetic resonance spectrum. The results of these experiments may be used in studying the effect of adsorbed gases on the electric and photoelectric properties of these materials. "In conclusion, the authors are grateful to A. A. Lebedev for proposing the idea for these experiments, and for discussing the results, to Z. K. Artykbayeva for taking part in the experiments, to B. A. Kazenov for providing the single crystals of lead sulfide, and to N. N. Chernyshkov for measuring the powder surface." Orig. art. has: 5 figures.

Card 4/6

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ACCESSION NR: AP5022692						411,55		
ASSOCIATION: Leningradskiy gosudarstvennyy universitet (Leningrad State University); Institut khimii silikatov im. I. V. Grebenshchikova AN SSSR, Leningrad								
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ITLE: <u>Electron par</u> rystals	presentive resonance upec	tra of the Gd <sup>3+</sup> ion in (	CeO <sub>2</sub> single
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ACCESSION NR: AP4004848

s/0181/63/005/012/3435/3438

AUTHORS: Berlaga, R. Ya.; Vinokurov, I. V.; Konorov, P. P.

TITLE: Electrical properties of PbS monocrystalline and polycrystalline layers

SOURCE: Fizika tverdogo tela, v. 5, no. 12, 1963, 3433-3438

TOPIC TAGS: lead sulfide, monocrystalline lead sulfide, polycrystalline lead sulfide, monocrystal, lead sulfide layer, polycrystal, electric property, single crystal

ABSTRACT: The authors studied electrical conductivities, Hall effects, and the thermoelectromotive force of polycrystalline and monocrystalline layers of PbS in order to determine the effect of crystalline interlayers and potential barriers on these properties. The PbS samples were activated by being heated at 600C in air for several minutes. The monocrystalline layers did not acquire any appreciable photosensitivity after heating. Their conductivity sign (determined from the sign of thermoelectromotive force) corresponded to p-type conductivity for some layers and to n-type conductivity for other layers. The polycrystalline layers always had n-conductivity before the sensitization and underwent a partial change to the p-conductivity after sensitization. It was established that in the activated Cord 1/2

## ACCESSION NR: AP4004848

polycrystalline layers the Hall emf was determined by the barriers between the grains in the layer and the thermo-emf corresponded to the properties of grain volumes. This was attributed to the fact that the Hall effect was caused by continuous current through the sample, while the thermo-emf was caused by the diffusion of current carriers in separate crystals. Exponential growth of conductivity with the increase in temperature was observed in the activated polycrystalline layers. The strength of potential barriers was 0.12 - 0.14 ev. "In conclusion we express our appreciation to T. T. By\*kova, L. P. Strakhov and O. M. Artamonov for useful discussions." Orig. art. has: 1 table.

ASSOCIATION: Leningradskiy gosudarstvenny\*y universitet (Leningrad State University)

SUBMITTED: 20Jun63

DATE ACQ: 03Jan64

ENCL: CO

SUB CODE: PH

NO SOV REF: 001

OTHER: 005

Card 2/2

SOV/137-57-10-19045

Translation from Referativnyy zhurnal, Metallurgiya, 1957, Nr 10, p 88 (USSR)

AUTHOR Vinokurov, I.Ya.

TITLE: Experience in Developing the Rolling of Nr 24 and 30 Lightened

I-Beams (Opyt osvoyeniya prokatki dvutavrovykh balok Nr 24

1 30 oblegchennogo tipa)

PERIODICAL: V sb.: Ratsionalizatsiya profiley prokata. Moscow, Profiz-

dat, 1956, pp 151-156

ABSTRACT. Results of tests show the  $\sigma_s$  and  $\sigma_b$  of the metal in Nr 24 and 30 beams (B) of lightened design to be 15 and 7% higher,

respectively, (with adequate 5) than that of ordinary B of the same metal. In order not to increase the total number of passes and not to reduce excessively the temperature at the end of rolling, the rolling of lightened B requires an increase in the reduction in each pass. If this is to be done, maximum reductions in the finishing stands (S) are best attained by a universal 4 roll S, in which it is possible to produce a draft 2 times as great as in ordinary S (with motors of equal power).

It is necessary to reduce the allowances for web and flange

Card 1/2 thickness in I-B, but it is not advisable to reduce allowances

SOV/137-57-10-19045

Experience in Developing the Rolling of Nr 24 and 30 Lightened I-Beams

for web height (particulary for lightened B). The question of changing the allowances for rolled sections must be approached from the viewpoint of the consumer, with consideration of production possibilities and economics.

V.D.

Card 2/2

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THE SECOND CONTRACTOR SECOND CONTRACTOR OF THE SECOND CONTRACTOR OF THE

MAKAYEV, Sergey Vladimirovich; VINOKUROV, Izrail Yakovlevich; MERKSIN,
Boris Vasil'yevich; FEYGIN, Geshel' Davidovich; SKRYABIN, Nikolay
Petrovich; RYABOKON', Nikolay Kononovich; LEDNEV, M.P., retsemzent;
KOTSAR', Sergey Leonidovich, red.; BUR'KOV, M.M., red.izd-va;
MAL'KGVA, N.T., tekhn. red.

整理器的建设是具体结合性的现在分词 医动物性动物 经基础 医动物性 经工程 经工程 计记录器 化二甲基乙基甲基甲基

[Production of lightweight sections]Proizvodstvo oblegchennykh profilei. [By]S.V.Makaev i dr. Sverdlovsk, Metallurgizdat, 1962.
215 p. (MIRA 16:3)
(Rolling (Metalwork))

SHALAYEV, Viktor Vasil'yevich; KALININ, Aleksandr Ivanovich; KOLBIN, Anatoliy Ivanovich; MEREKIN, Boris Vasil'yevich; FEYGIN, Geshel' Davidovich; VINCKURCV, Izrail Yakovlevich; SKAKUN, Vladimir Vasil'yevich; KAPUSTIN, Arkadiy Ivanovich; MOGILEVSKIY, David Markovich; ALEKSEYEVA, Tat'yana Alekseyevna; BABAYLOV, Finopent Ivanovich; SKRYABIN, N.P., red.; KRYZHOVA, M.L., red.izd-va; KOROL', V.P., tekhn. red.

[Improving procedures and equipment in shape rolling mills]
Sovershenstvovanie tekhnologii i oborudovaniia v sortoprokatnom tsekhe. Sverdlovsk, Metallurgizdat, 1963. 163 p.
(MIRA 16:1)
(Rolling (Metalwork))--Equipment and supplies)

### CIA-RDP86-00513R001860010018-6 "APPROVED FOR RELEASE: 09/01/2001

VINOKUROV, I YA.

137-58-2-2832

NOT THE WAR AND A STREET TO STREET THE STREE

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 2, p 90 (USSR)

Vinokurov, I. Ya. AUTHOR:

Experience in the Use of Rolls on a Rail/Structural Rolling TITLE:

Mill at the Novo Tagillioldy Metal-Working Plant (Opyt ekspluatatsii prokatnykh valkov na rel'so-balochnom stane Novo-

Tagil'skogo metallurgicheskogo zavoda)

Tr. Nauchno-tekhn. o-va chernoy metallurgii, 1956, Vol PERIODICAL:

10, pp 212-217

An analysis is given of the roll consumption of a rail/struc-ABSTRACT:

tural rolling mill consisting of a two-high 900 blooming stand, of 2 three-high 800 rolls, and of a two-high 800 finishing stand. This one mill was accounting for 75 percent of the plant's entire consumption of rolls. Measures are described designed to lower the consumption of rolls. In the course of use the roll diameter on mill 900 was increased to 1,000 mm. The rolls used on roll; 800, made from steel 60 KhN, were more durable than rolls made from steel 50. At the plant in question magnesium/cast-iron rolls from the Dnepr

casting Plant had begun to be introduced, these being more Card 1/2

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137-58-2-2832

Experience in the Use of Rolls on (cont.)

durable than the general run of CrNi rolls but not the most durable. The ak value of the magnesium rolls was significantly lower than that of the CrNi rolls. The coefficient of friction was higher when rolling was done with magnesium rolls than when it was done with CrNi rolls. To lower its consumption of rolls the plant is now casehardening the rolls and building them up by electric welding. As a result of these measures its roll consumption has declined from year to year.

1. Rolls—Consumption 2. Rolling mills—Applications

Card 2/2

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RYABOKOH', N.K., inshener; GUBERT, S.V., inshener; VINOKUROW, I.Ya..
inshener; FEYGIN, G.D., inshener.

Rolling of reduced-weight I-beams. Stal' 15 mo.11:1000-1003

B '55.

1. Novo-Tagil'skiy metallurgicheskiy mavod.

(Rolling (Metal work)) (Steel, Structural)
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L 53978-65 EWI(m)/EWP(w)/EWA(d)/I/EWP(t)/EMP(z)/EMP(b) ACCESSION HR: AP5014866 UR/0133/65/000/006/0553/0557 621.43.669.15.194 AUTHOR: Freydenzon, Ye. Z.; Rabinovich, D. M.; Vinokurov, I. Ya.; Lochkins, H.A.; Mayraghina, L. F.; Freydanzon, Yu. Ye. TITLE: Ways of improving the mechanical properties of low-carbon and low alloy steel sheets and sections SOURCE: Stal', no. 6, 1965, 553-557 TOPIC TAGS: foughening, low carbon steel, low alloy steel, sheet steel, steel section, steel beam, quenched steel, toughened steel, spray quenching, quenching tank, impact toughness ABSTRACT: Since the toughening of low-carbon and low-alloy metal by means of heat treatment requires substantial capital investments, it is of interest to consider other techniques. The authors describe the work being done in this field at the Hizhniy Tagil Herallurgical Combine with respect to the toughening of metal while it still is in heared wate immediately efter its rolling or forging. Beams whose a set of the control was red to a green hing was as to be trained and all the end who head to the last washed through an experimental Card 1/3 

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spray installation. For stabilization of the properties at the required level and enhancement of plasticity after the toughening by quenching in the tank, it is expedient to perform additional tempering by means of the available heattiestment equipment. In the apray installation the required level of properties can be attained by a tracting the treat and the interval late of the coulting water. The effect is emperature was more from the determined in caboratory experiments with the course of the emperature was more from the fermined in caboratory and the course of Record and the course of the emperature with the course of th

ASSOCIATION: Nighne-Tegil'skiy estallurgicheskiv kombinat (Nighniy Tagil Metallurgical Combine)

Card 2/3

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Card 3/3		

VINOK	IROK, I.M.		
SMI	HEOV, V.D., inzhener: HYABOM VINOKUROV, I.Ya., inzhene	on', N.E., inchener; OU er; FEYGIN, G.D., inche	BERT, S.V., inzhener; ner.
	Exparience in rolling its D *56.	entweight sections. St	91' 16 no.12:1086-1089 (MIRA 10:9)
	1. Novo-Tagil'ski/ hetal	Durgicheskiy zavod. (Rolling (Metalwork)	)
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RYABOKOH', N.K., inshener; GUBERT, S.V., inshener; VINOKUROV, I.Ya..
inshener; FEYGIN, G.D., inshener.

Rolling of reduced-weight I-beams. Stal' 15 mo.11:1000-1003
B '55. (MIRA 9:1)

1. Hovo-Tagil'skiy metallurgicheskiy mavod.
(Rolling (Metal work)) (Steel, Structural)

# VINOKUROV, I.Ya.

Center of deformation of a girder groove. Izv. vys. ucheb. zav.; chern. met. 4 no.10:66-74 \*61. (MIRA 14:11)

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SKRYABIN, N.P.; VINOKUROV, I.Ya.; KORSPCHIKOV, V.D.; KOCHETOV, I.M.

Rolling channels with a high output of the finishing groove.

Metallurg ? no.1:30-31 Ja '62. (KiRa 15:1)

1. Ural'skiy institut chernykh metallov i Nizhne-Tagil'skiy metallurgicheskiy kombinat.

(Rolling (Metalwork))

VINOKUROV, I.Ya., inzh.; MAKOVSKIY, A.T., inzh.

Improvement of manipulator design for structural and rail mills. Stal' 23 no.3:234-236 Mr '63. (MIRA 16:5)

1. Nizhne-Tagil'skiy metallurgicheskiy kombinat.
(Rolling mills--Equipment and supplies)

PREYDEBLION, Ye.7.; HABSHOVICH, B.M.; VINCKUBOV, I.Ye.; INCPRIBA, B.A.;

MAYSISHIMA, I.F.; PREYDEMICN, Yu.Ye.

Ways of improving the machanical properties of same and rolle;
sections of low carbon and low alloy steel. Stal' 25 no.6:1553-557

Je '65. (MIRC 12:4)

1. Nizhne-Tagil'skiy metailargicheskiy kombinat.

CONTROL OF THE SECOND CONTROL OF THE SECOND

VINOKUROV, K.

Workers of the Main Administration for Housing and Public Construction in the City of Moscow were fully prepared for Builder's Day. Ma stroi. Mosk. 2 no.8:1 Ag '59. (MIRA 12:12)

1. Zamestitel' nachal'nika Glavmosstroya. (Moscow--Building)

。在1982年中1985年中,

VINOKUROV, K.D.; DREMIN, M.V.; KAZAKIN, V.V.; GRIBIN, G.P., red.;
MORSKOY, K.L., red.izd-ve; RUDAKOVA, N.I., tekhn.red.;
TEMKINA, Ye.L., tekhn.red.

[Mixed brigades on the construction sites of the Main Administration for Housing and Public Construction in the City of Moscow] Kompleksnye brigady na stroikakh Glavmosstroia. Moskva, Gos.izd-vo lit-ry po stroit., arkhit. i stroit.materialam, 1959. 61 p. (Moscow-Building) (Wages)

VINO	KUROV, K.					
	Matter of	A ATOAT imports	unce. Stroitel'	2.16		
	156.		41001 40101001	2 10 no.11	(MIRA 10:1)	
	1. Zamesti	tel nachal'nik (Building)	m Glavmosstroys (Efficiency, In	dustrial)	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
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				p>		

# VINOKUROV, Konstantin Striding ahead with seven-league steps. Sov. profsciuzy 17 no.24:12-14 D '61. (Romanovskiy District-Farm mechanization) (Romanovskiy District-Swine)

VINOKUROV, K.A.

"Clinical and Epidemiological Data on Epidemic Poliomyelitis in Children, According to Expeditionary Work of the Institute of Neurology, Academy of Medical Sciences USSR." # report by K.A. Vinokurov.

Sciences USSR." # report by K.A. Vinokurov.

Observations were presented on several epidemic outbreaks of poliomyelitis in the Soviet Union and in the territory of the German Democratic Republic.

So: Nevropatologiya i Psikhiatriya, No. 2, 1951,pp 93-97

# USER/Medicine - Virus Diseases Mar 52

Mar 52

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"Epidemic Poliomyelitis," K. A. Vinokurov, Sr Sci Assoc, Inst of Neurol, Acad Med Sci USSR

"Med Sestra" No 3, pp 14-18

Describes etiology, symptoms, and treatment of this disease -- also care of patients. Recommends treatment in the early stage of the disease with serum. of blood obtained from persons who have recovered from polionyalitis, anti-measles serum, or gamma globulin. These prepns are injected intramuscularly during 4-6 days.

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Some Clinical and Epidemiological Problems of Acute Poliomyelisis, Zhur. new. i psikh., VINDKUKOV, K.A.

K.A. VINOKU.OV.

Themas Warropat, P. K.

53, 658-663, Aug., 1953.

The author discusses the variability of the clinical manifestations, severity, and end-results of poliomyelitis in the light of several thousand cases studied in the East German Republic and in the corresponding latitudes of the Soviet Union between 1947 and 1952. This variability is believed to be conditioned by the varying reactivity of the patient, which is largely determined by the nervous system. This view is also supported by the occurrence of similar clinical features in infections with other viruses, such as tick-borne encephalitis and Japanese encephalitis on the one hand, and poliomyelitis on the other.

Poliomyelitis ran a milder course in the Soviet Union than in eastern Germany. In the latter country, 39.4% of the patients were left with residual paralysis, compared with 24.8 to 26.7% in the U.S.S.R., while the mortality in the two areas was 10.7% and 1 to 2% respectively. A special enidemiological study of minor epidemics carried out in some of the smaller towns showed that such epidemics were usually heralded by the occurrence of sporadic cases in the preceding years. There was also much evidence of the infectivity of the disease, especially in its early stages, infection being mainly by contact, although there was a few instances of food-borne transmission. In two of the outbreaks lumbar puncture showed an increase in the number of polymorphonuclear leucocytes in the cerebrospinal fluid of close contacts. Inoculation of a faecal emulsion

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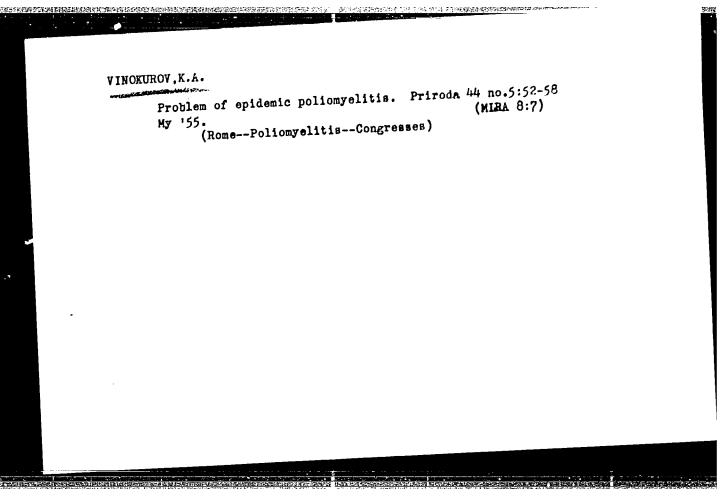
VINOKUROV, K.A.

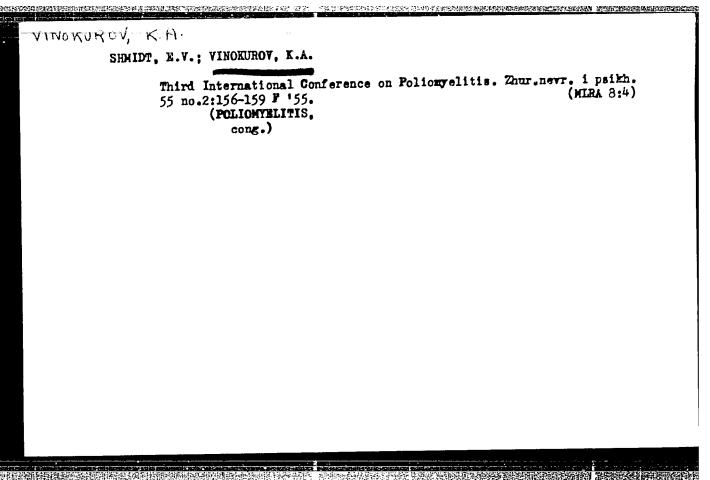
VINOKUROV, K.A.

Out-of-town session of the Scientific Council of the Institute
of Neurology of the U.S.S.R. Academy of Medical Sciences with the
of Neurology of the Yaroslavi Medical Institute and Yaroslavi
Learned Council of the Yaroslavi Medical Institute and Yaroslavi
Province Public Health Department. Vest AMM SSSR no.2:72-74 '54.

(MERA 7:7)

(YAROSLAVI.--MEDICINE, FREVENTIVE-- CONGRESSES)





THE REPORT OF THE PROPERTY OF

VINOKUROV, K.

"A New Stage in the Fight Against Poliomyelitis," Meditsinskiy Rabotnik, No.79 (1407), 27 Sep 55, p. 3.

Translation M-1042, 28 Mar 56

Scientific Worker of the Institute of Neurology, AMS USSR

VINOKUROV, Konstantin Aleksandrovich, starshiy nauchnyy sotrudnik; BENYUMOV, O.M., redaktor; FURMAN, G.V., tekhnicheskiy redaktor

[Mpidemic infantile paralysis; poliomyelitits] Mpidemicheskii detskii paralich; poliomielit. Moskva, Izd-vo "Znanie," 1956. 39 p. (Vss-soiuznoe obshchestvo po rasprostraneniiu politicheskikh i nauchnykh znanii. Ser. 3, nl.32) (MIRA 9:9)

1. Institut nevrologii Akademii meditsinskikh nauk SSSR (for Vinokurov) (POLIOMYRLITIS)

VINOKUROV, K.A., starshiy nauchnyy sotrudnik (Hoskva)

Prophylaxis of poliomyslitis. Med. sestra 15 no.3:3-7 Mr '56.

(POLIOMYSLITIS)

(MIRA 9:6)

VINOKUROV, K.A., starshiy nauchnyy sotrudnik

Pathogenesis and prevention of severe paralysis in epidemic poliomyelitis. Ortop., travm. i protez. 17 no.2:64-70 Mr-Ap '56. (MIRA 9:12)

1. Iz Instituta nevrologii (dir. - N.V.Konovalov) Akademii meditsinskikh nauk SSSR.

(POLIOMYELITIS.

pathogen. & prev. of paralysis (Rus))

V/NOKUROV, K. A.

USSR/Medicine

Card 1/1 Pub. 86 - 6/42

Authors 1 Vinokurov, K. A.

The fight against poliomyelitis

Periodical : Priroda 45/1, 46-50, Jan 56

Abstract: The general progress of medicine in combatting disease is cited, with polio named as one of the diseases which science is having the most difficulty in conquering. The changes in the character of this disease as regards the parts of the body affected and the age groups contracting it are discussed. An account is given of the research done by scientists in various countries through which they learned more of the nature of the disease and made many discoveries, such as the role played by antibodies and the isolation of the virus, culminating in the development of Dr. Saulk's vaccine, the merits of which are discussed.

Institution: ....

Title

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Category: USSR/General Division. Congresses.Conventions. Conferences. A-4

Abs Jour: Referat Zh.-Biol., No 9, 10 May 1957, 34943

Author : Shmidt, E.V., Vinokurov, K.A.

Inst : not given

Title : The IIIrd International Conference on Policmyelitis

Orig Pub: Zh. nevropatol. ipsikhiatii, 1955, 55, No 2, 156-159

Abstract: A short summary of the reports of the conference which took place in Rome 6-10 September, 1954, and which was devoted to the virusology, immunology, epidemiology, clinic, treatment, vaccination,

and social problems of the prophylaxis of poliomyelitis.

Card : 1/1

-17-

VINOKUROV, Konstantin-Vnsil'eyvich; RAKITINA, Ye.D., red.; Ballod, A.I., tekhn.red.

[Owners of the land] Khoziseva zemli. [Moskva] Gos. izd-vo sel'khoz. lit-ry, 1957. 124 p. (MIRA 11:5)

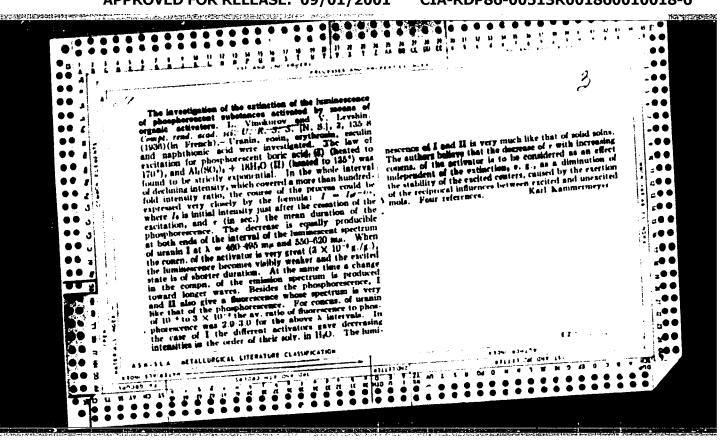
(Collective farms)

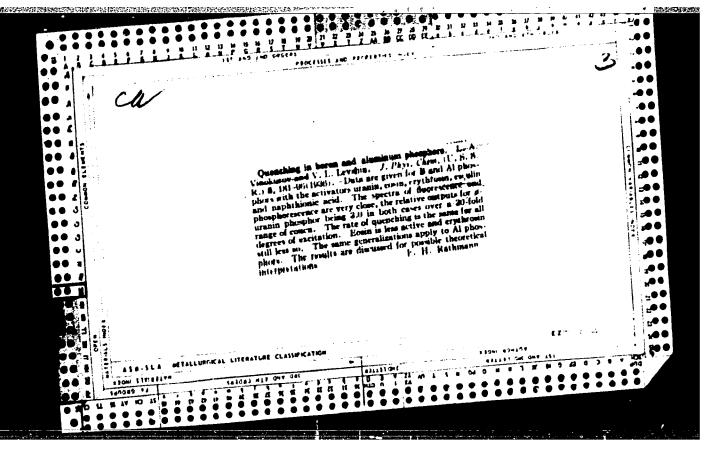
VINOKUROV, Konstantin Vasil'yevich; KASHIRSKIY, F., redaktor; DANILINA, A., tekhnicheskiy redaktor

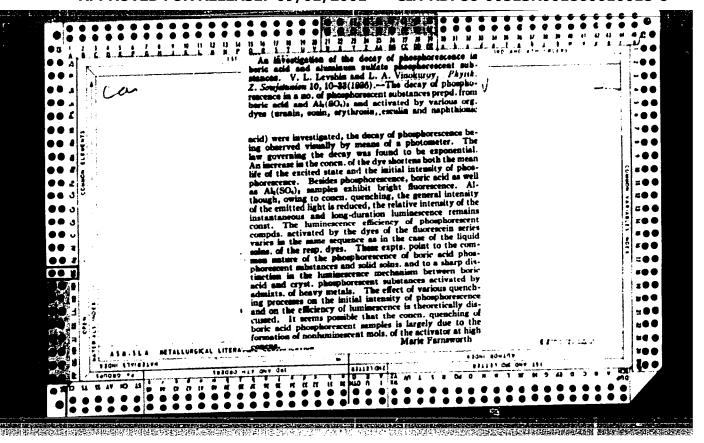
[Toward 11 billion poods of grain] Za odinnadtsat' milliardov pudov zerna. Moskva, Gos. izd-vo polit. lit-ry, 1956. 52 p. (MIRA 9:9)

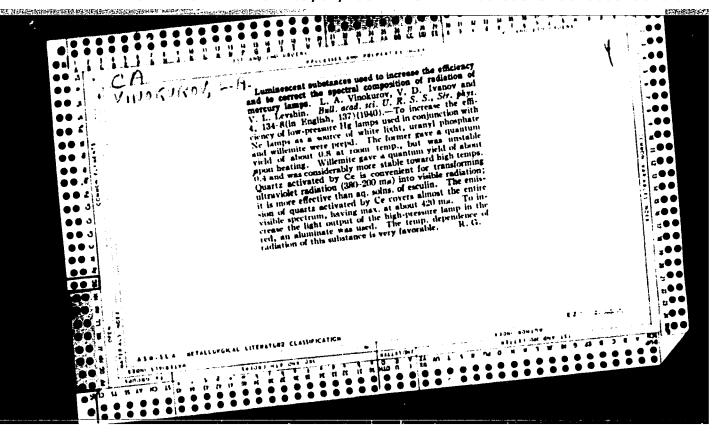
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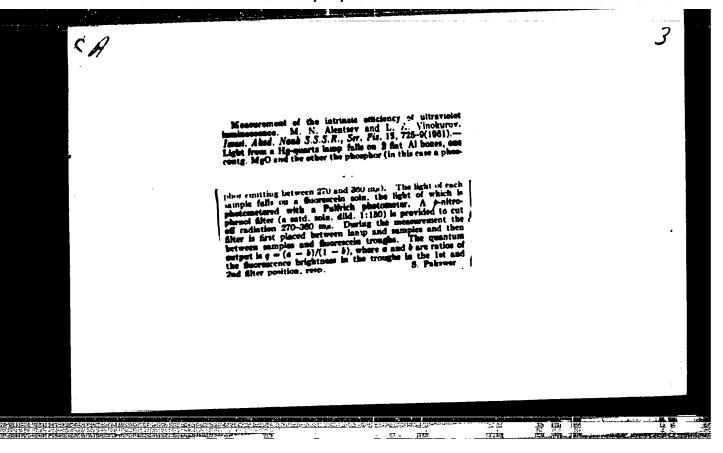
(Grain)

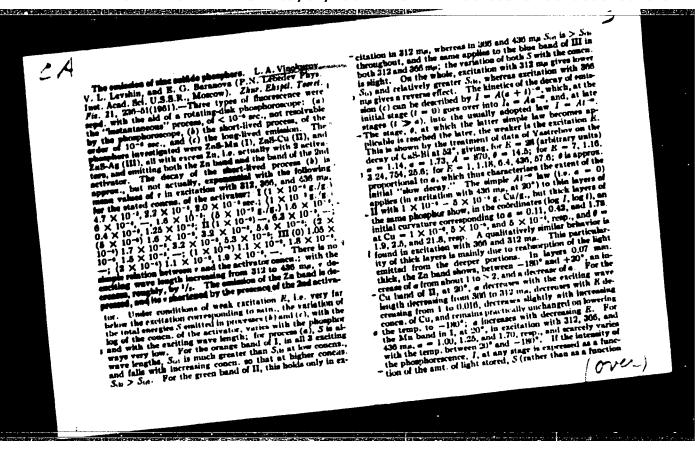


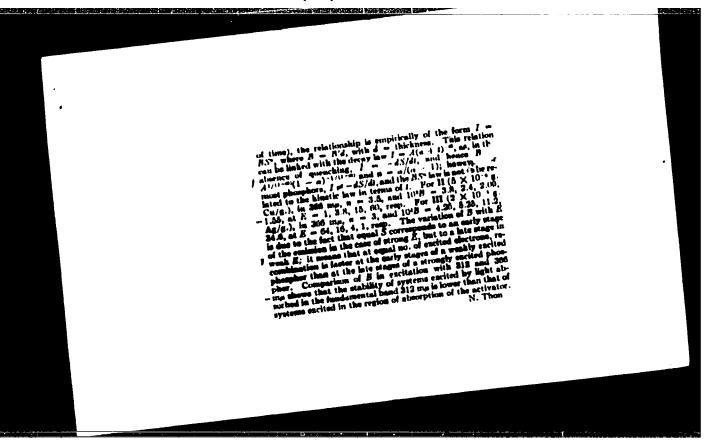












CP

Temperature and infrared quenthing of the ZaS-Cu, Cophensher. L. A., Vischurev (P. N. Lebeclev Phyn. Inst. Acad. Sci. U.S.S.R., Moscow). Doblady Abed. Namb Acad. Sci. U.S.S.R., Moscow). Doblady Abed. Namb S.S.S.R. 85, 529-32(1952).—Temp. quenching in recombination-type luminescence can be of 2 kinds: by mechanism I quenching takes place at the very centers after the recombination act, i.e. the recombining electrons fall onto the recombination levels of the ionized centers, whence they can excitation levels of the ionized centers, whence they can span to the ground state either with or without emission. By mechanism II quenching is independent of the recombination; in one possible path, the electron passes bination; in one possible path, the electron passes bination; in one possible path, the electron passes beaution; in the decay remains bination, and irves. In the alternative I the decay remains bination, and irves. In the alternative I the decay remains bination, and irves. In the alternative I the decay remains bination, and decay curve should remain hyperbolic as in the absence of quenching; in contrast, in II, quenching is unimot, of guenching; in contrast, in II, quenching is unimot. And the decay curve should become exponential. Expti. and the decay curve should become exponential. Expti. Co. At 20 and at 101° the decay was found to follow Co. At 20 and at 101° the decay was found to follow the contrast of t

curve is more nearly exponential,  $I = I_{el}^{-1/\epsilon}$ . This is taken as an indication that at 175° the temp. quenching is of type II. In quenching by long-wave radiation (max. at 800 mg) the Recquerel kiestics of decay remains valid, with  $a \approx 12$  unchanged with the intensity of the quenching radiation varying by a factor of 100). This is taken to indicate type-I quenching by infrared. The action of the long-wave light everying the property of the long-wave light consists in liberating electrons from the trapping levels, these freed electrons then recombine with the senions centers. Recombination with these optical electrons also radiationless return to the ground level. In contrast thermally freed electrons appear to get onto levels from which return to the ground state is accompanied by emission. Flash produced by long-wave light is due to electrons and being trapped at shallower levels from which, in turn, they are liberated thermally, thus increasing the no. of radiating transitions; in other words, long-wave light, along with its quenching action, also increases the population of the shallower levels. If so, one should expect a short-dived flash if the quenching long-wave light is turned on at a late stage of decay decay, when the shallow levels have already become strongly depopulated. This was actually observed with ZnS-Cu, Co; the effect is more marked, the later is the stage of decay at which the long-wave light is turned on. The maxima of the quenching action, 0.8 and 1.3 s, coincide with the snazima of phetocand, and with the maxima of

our

BUXKE, Ye.Ye.: VINOKUROV, L.A.; FOK, M.V.

Role of holes in the electroluminescence kinetics of ZnS-Cu, Al, Cl phosphors. Opt. i spektr. 16 no.3:491-495 Mr '64. (MIRA 17:4)

	VINOKOROV	L.P.	
	**************************************		
	4 - 2	USSR.	
		Quenching of zinc gulfide phosphora activated by means of cobalt and nickel. V. V. Antonov-Romanovskil, E. E. Hukke, and L. A. Vinokurov. Zhar, Elstil, i Teoret, Fiz. 25, 745-8(1933).—The interstilled on 10-4-10-7 parts Co or NI activators into ZnS phosphors leads to the appearance of new absorption bands in the red (700-80) ma) and infraord. The intensities of these new bands depend not only 2nd activator, Cu or Ag, in similar nants. The life of the excited state is of the order of 2 × 10-7 sec. F. H. R.	:
•		F. H. R.	
	:		

VINOKUROV, L. A.

USSR/Physics - Luminescence

Card

: 1/1

Authors

: Alentsev, M. N., Antonov-Romanovskiy, V. V. and Vinokurov, L. A.

Title

: Relation between the green luminescence discharge of ZnS-Cu phosphorus and the excitation intensity

Periodical

: Dokl. AN SSSR, 96, Ed. 6, 1133 - 1134, June 1954

Abstract

: A study of the relation between green luminescence intensity of ZnS-Cu phosphorus and the intensity of the exciting light revealed two types of deviations from the proportionality between these two values. The luminescence intensity during weak excitation increases more rapidly than the proportional intensity of the exciting light. Proportionality exists at a certain interval and further excitation amplification decreases the luminescence intensity of the phosphorus in ratio to the intensity of the exciting light. Four references. Graphs.

Institute

: Acad. of S. USSR, The P. N. Lebedev Physics Institute

Presented by: Academician G. S. Landsberg, March 12, 1954

CONTRACTOR SERVICE SER

FD-3254

USSR/Physics - Phosphors

Pub. 146 - 13/44

Author

Card 1/1

: Antonov-Romanovskiy, V. V.; Vinokurov, L. A.

Title

: Decrease in the illumination yield of phosphors during intense ex-

Periodical

Zhur. eksp. i teor. fiz., 29, No 6(12), Dec 1955, 830-833

Abstract

A demonstration that the decrease in the illumination yield of phosphors ZnS-Cu and ZnS-Cu, Co during intense excitation is due in considerable degree to the light-eliciting action of the exciting light and to the fact that recombination of optical electrons or "holes" leads to radiatorless transitions. The authors show that the same causes lead to the fact that the light sum determined from the curve of illumination growth turns out to be considerably less than the light sum determined from the curve of extinguishing. They conclude that the causes for the decrease in the light yield of the phosphor ZnS-Cu,Co outside the region of the so-called plateau are the same as for the phosphor ZnS-Cu, and that for small intensities of the exciting light this decrease is caused by the increase in the role of external extinguishing, while for large intensities it is due to the light-eliciting action of the exciting light. The authors remark that incorrect interpretations of results in studies of extinguishing of ZnS-Cu phosphors by ferrous elements are caused by neglect of phenomena connected with the light-eliciting action of the exciting light. Five references.

Institution

Physical Institute im. P. N. Lebedev, Acad. Sci. USSR

Submitted

June 11, 1955

#### CIA-RDP86-00513R001860010018-6 "APPROVED FOR RELEASE: 09/01/2001

Category: USSR/Optics - Physical optics

K-5

Abs Jour: Ref Zhur - Fizika, No 1, 1957, No 2361

: Antonov-Romanovskiy, V.V., Vinokurov, L.A. Author : Physics Institute, Academy of Sciences USSR Inst

: On the Nature of the Luminescence Loss of the ZnS-Cu, Co Phosphor in the Title

Region where the Yield is Independent of the Intensity of the Exciting Light.

Orig Pub: Optika i spektroskopiya, 1956, 1, No 1, 66-70

Abstract : The dependence of the quantum yield  $\underline{q}$  of the luminescence of the ZnS-(Cu, Co) phosphor on the intensity E of the exciting light was investigated. The results are analogous to those obtained for pure XnS-Cu (Referat. Zhur. Fizika 1955, 5672) with the only difference that q lin the "plateau" region. What was measured in this experiment was not q, but the stationary brightness  $I_{\infty}$ which is proportional to 2. The ration I Cu/I Cu, Co was determined; owing to the independence of the absorption in the spectral excitation region, ( $\lambda$ = 356 millimicrons) this ratio is equal to q<sub>Cu</sub>/q<sub>CumCo</sub>, where q<sub>Cu</sub> &1 (Ref. Zhur.

Fiz., 1955, 5672). This ratio was also measured by determining the ratio F<sub>Co</sub>/F<sub>Cu,Co</sub>, where F is the reserve light sum in short-period excitation. The losses prior to ionization were estimated using the quation qlcu/qlcu,co = kc... Cu, Co, where k is the coefficient of additional absorption, occurring during

short-period excitation. In the case of recombination glow  $q = q_1 q_2$ , where  $q_1$ 

Card : 1/2

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USSK/Optics - Physical optics

Abs Jour : Ref Zhur - Fizika, No 1, 1957 No 2361

K-5

is the ionization yield of the glow centers, calculated for the number of absorbed quanta, and q<sub>2</sub> is the radiation yield, calculated for the number of localized electrons. It was established that the basic losses due to introducing Co are the losses occurring after ionization, caused by the recombination on free holes with the localized electrons. The share of these combination increases sharply owing to the formation of deep electron traps by the cobalt.

Card

: 2/2

K-5

VINCKURUV Category : USSR/Optics - Physical optics

Abs Jour : Ref Zhur - Fizika, No 1, 1957, No 2362

Author : Antonov-Romanovskiy, V.V., Vinokurov, I.A. Inst : Physics Inst., Acad. of Sciences USSR Title

: Kinetics of the Glow of the ZhS-Cu, Co Phosphor in the Region where the Glow Yield is Independent of the Intensity of the Exciting Light.

Orig Pub : Optika i spektroskopiya, 1956, 1, No 1, 71-76

Abstract : Continuing their work, (see Abstract 2361), the authors show that the inequality of the light sums, computed from the curves for the flareup and extinction of the glow, observed in the region where the glow yield is independent of the intensity of the exciting light ("plateau" region) for the ZnS-Cu, Co phosphor, is caused by the change in the distribution of electrons and the holes over capture levels of various depths, occurring during the time of the flareup. The temperature shift of the "plateau" region was used to estimate approximately the depth of the deepest electron and hole traps & and & +. The results were:  $\mathcal{E}_{i} \approx \mathcal{E}_{i} \approx 0.33$  where  $\mathcal{E}_{i} \approx 0.35$  and  $\mathcal{E}_{i} \approx 0$ ters of Cu. The reduction in the luminescence grield outside the "platean" in the case of weak excitation is attributed to the increase in the role of the relatively small amount of particularly deep electron and hole traps, which increase sharply the fraction of the non-radiating recombinations. Card : 1/1

#### CIA-RDP86-00513R001860010018-6 "APPROVED FOR RELEASE: 09/01/2001

VINOKUROV, LA

Abs Jour

USSR/ Physical Chemistry - Crystals

B-5

: Referat Zhur - Khimiya, No 3, 1957, 7304

: Antonov-Romanovskiy, V.V. and Vinokurov, L.A.

: Kinetics of Luminescence in the Phosphors ZnS-Cu, Co in Author Title

the Region in Which the Luminescence yield is Independent

of the Intensity of the Exciting Radiation

: Optika i spektroskopiya, 1956, Vol 1, No 1, 71-76 Orig Pub

: In continuing previously published work (RZhKhim, 1957, Abstract

3597), the authors have shown that the inequalities of the radiation sums determined from the excitation and extinction curves in the "plateau" region for the phosphor ZnS-(Cu, Co) are related to changes in the distribution of electrons and holes over the occupancy levels lying at varying depths during excitation. The approximate value of the localization energy of the electrons e" and holes e' in the deepest occupancy levels has been

estimated from the temperature shift of the "plateau".

- 48 -Card 1/2

. " USSR/ Physical Chemietry - Crystals

B-5

Abs Jour : Referat Zhur - Khimiya, No 3, 1957, 7304

It was found that equal 0.33 ev, equ, co >0.35 ev, and Cu, co e = 0.44 ev. Instauch as equ, co ecu, the lowest occupancy levels for holes are the same in the phosphors ZnS-Cu and ZnS-(Cu,Co). Apparently these levels constitute unionized centers of Cu luminescence.

Card 2/2

- 49 -

USSR/Optics - Physical Optics

K-5

Abs Jour

: Referat Zhur - Fizika, No 5, 1957, 12928

Author

Vinokurov, L.A., Fok. M.V.

Inst

: Physics Institute imeni P.N. Lebedev, Academy of Sciences

USSR

Title

: Extinction of ZnS(Cu, Co) and ZnS(Cu, Ni) Phosphors by

Infrared Light.

Orig Pub

: Optika i spektroskopiya, 1956, 1, No 2, 248-254

Abstract

: Infrared rays act as flashing and extinguishing factors on the phosphors ZnS-(Cu, Co) and ZnS-(Cu, Ni). At a sufficiently large infrared intensity, the brightness of the phosphor I depends on the intensity of excitation E in accordance with the law I = E3/2. The action of the infrared rays in the afterglow causes extinction that obeys a second-order hyperbola. The usual scheme of

Card 1/2

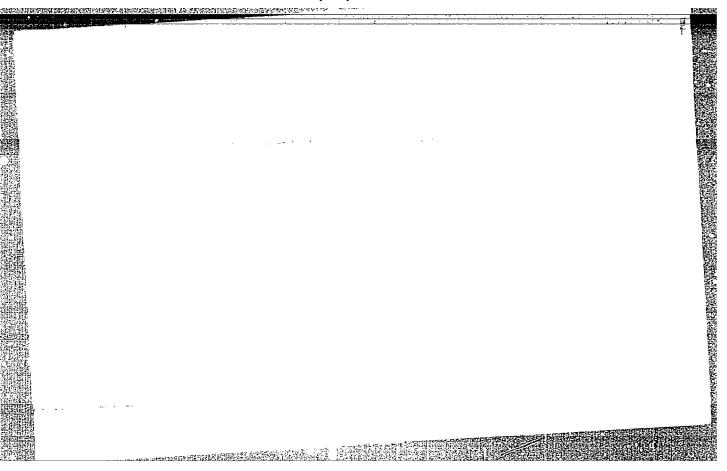
USSR/Optics - Physical Optics

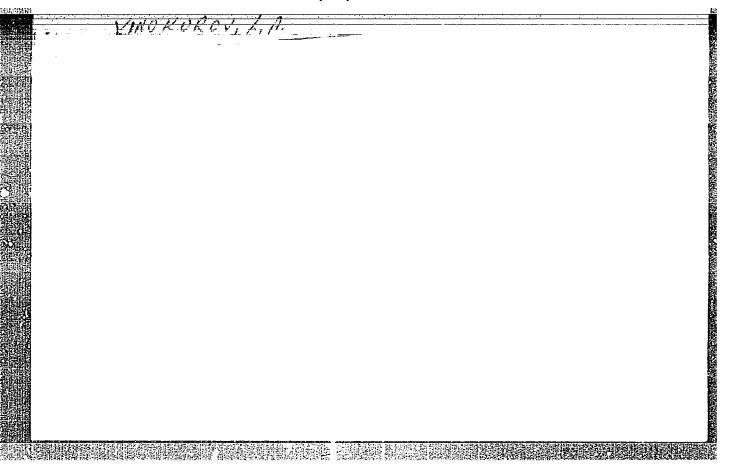
K-5

Abs Jour : Ref Zhur - Fizika, No 5, 1957, 12928

external extinction does not explain these laws, for it gives an exponential attenuation (mono-molecular) extinction and a dependence of I on E in the form I E<sup>2</sup>. The stationary brightness and the extinction are calculated for the case, when the holes in the valent zone have a greater probability of returning to the activator level, than of recombining with the localized electrons. A formula is obtained to explain the experimentally observed dependence of I on E in the hyperbolic extinctions. On the basis of the same calculation, an explaination is given for the extinguishing action of Co and Ni and it is shown, that if the extinction is not too strong, when the yield is reduced by merely a factor of several times, the dependence of I on E remains linear.

Card 2/2





#### CIA-RDP86-00513R001860010018-6 "APPROVED FOR RELEASE: 09/01/2001

VINOR SRIEL H

USSR/Luminescence SUBJECT:

48-4-22/48

BIT - COURT TO A CONTRACT OF THE SECRETARIES OF THE

AUTHORS:

Vinokurov L.A. and Fok M.V.

TITLE:

On the Quenching of ZnS-Cu, Co- and ZnS-Cu, Ni-Phosphors by Infra-Red Light (O tyshenii fosforov ZnS-Cu, Co i ZnS-Cu, Ni

infrakrasnym svetom)

PERIODICAL: Izvestiya Akademii Nauk SSSR, Seriya Fizicheskaya, 1957, Vol 21, #4, p 538 (USSR)

ABSTRACT:

Infra-red light gives rise to flashes and quenching of ZnS-Cu, Co and ZnS-Cu, Ni phosphors. It was discovered that at the constant intensity of infra-red light the phosphor brightness I depends on excitation intensity E according to the law:

The action of infra-red light in aftergles leads to the secondorder hyperbola decay, instead of an exponential law as in the conventional scheme.

The stationary brightness and decay of the phosphors were calculated for a case when holes in the valence zone have a greater probability to return to luminescent centers than to recombine with localized electrons.

Card 1/2

48-4-22/48

TITLE:

On the Guenching of ZnS-Cu, Co- and ZnS-Cu, Ni-Phosphors by Infra-Red Light (O tyshenii fosforov ZnS-Cu, Co i ZnS-Cu, Ni infrakrasnym svetom)

The Co and Ni effects as quenching agents was explained on the basis of these calculations.

The report was followed by a short discussion. No references are cited.

INSTITUTION: Physical Institute im. Lebedev of the USSR Academy of Sciences

PRESENTED BY:

SUBMITTED: No date indicated

AVAILABLE: At the Library of Congress.

Card 2/2